

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P838117

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3HI-40-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P838117
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-3HI-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

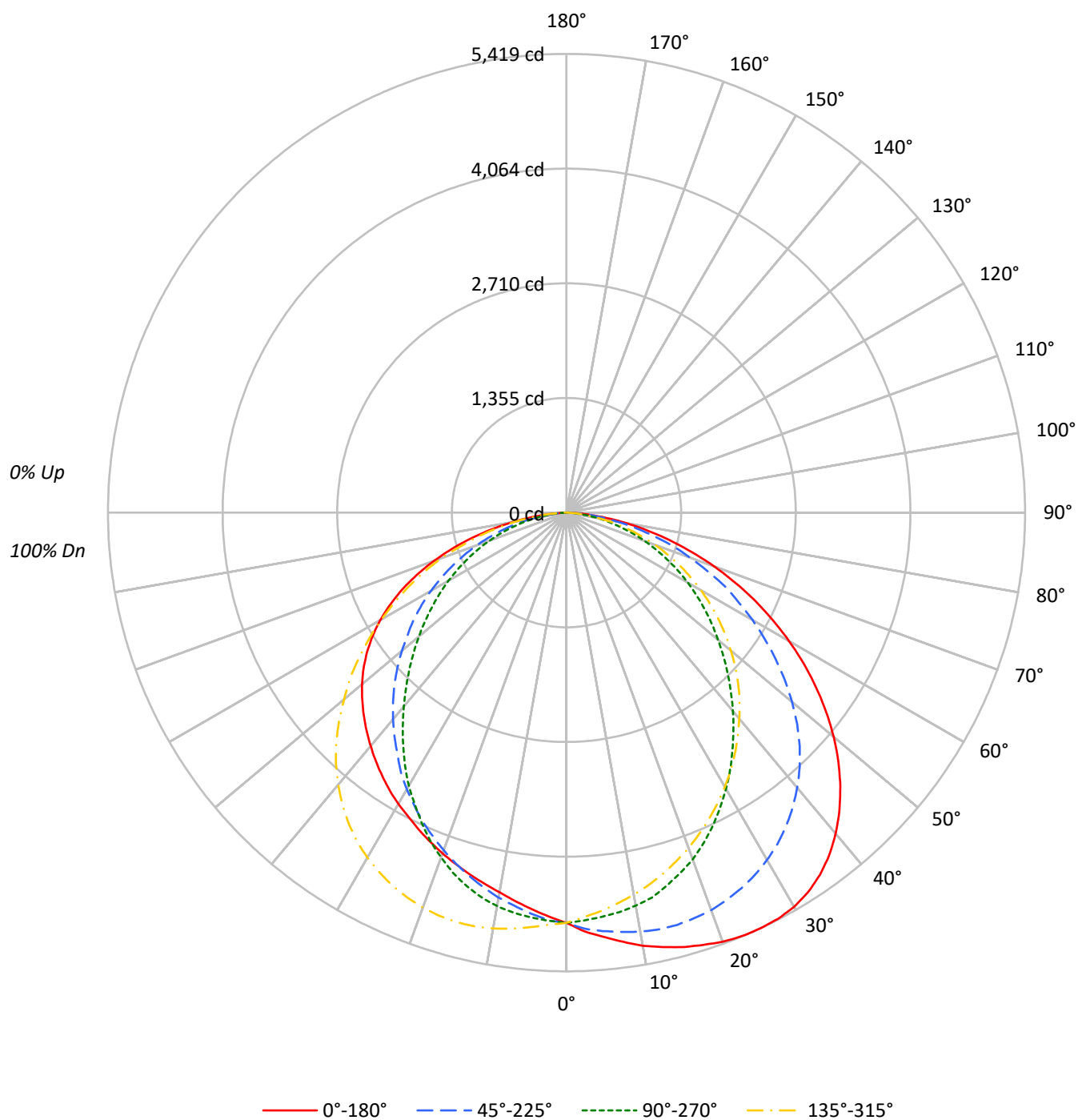
Lumens per Lamp: N/A
Luminaire Lumens: 14217.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6520	6520	6520	6520
5°	6795	6473	6351	6484
10°	7098	6440	6222	6449
15°	7402	6358	6161	6360
20°	7725	6243	6134	6207
25°	8045	6068	6134	6006
30°	8356	5857	6175	5792
35°	8578	5616	6237	5527
40°	8692	5374	6323	5253
45°	8709	5130	6446	5001
50°	8627	4895	6604	4765
55°	8448	4678	6751	4548
60°	8182	4450	6841	4335
65°	7816	4189	6805	4092
70°	7302	3882	6563	3811
75°	6569	3461	6023	3444
80°	5570	2899	5062	2943
85°	3873	1919	3211	1971

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.1	3.2
10°-20°	1332.3	9.4
20°-30°	2041.8	14.4
30°-40°	2482.7	17.5
40°-50°	2580.9	18.2
50°-60°	2331.3	16.4
60°-70°	1772.4	12.5
70°-80°	988.1	7.0
80°-90°	227.5	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3834.2	27.0
0°-40°	6316.8	44.4
0°-60°	11229.1	79.0
0°-90°	14217.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14217.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4846	4846	4846	4846	4846	
5°	5031	4793	4702	4801	5031	485
15°	5314	4564	4423	4566	5314	1507
25°	5419	4087	4132	4046	5419	2503
35°	5222	3419	3797	3365	5222	3262
45°	4577	2696	3388	2628	4577	3524
55°	3601	1994	2878	1939	3601	3215
65°	2455	1316	2138	1285	2455	2426
75°	1264	666	1159	662	1264	1342
85°	251	124	208	128	251	316
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9
2.5°	4953.2	4880.9	4882.0	4945.3	4896.7	4920.5	4852.6	4878.6	4870.7	4876.4	4821.0
5°	5031.2	4953.2	4952.1	5006.4	4952.1	4962.3	4876.4	4893.3	4868.5	4852.6	4792.7
7.5°	5113.8	5035.8	5027.8	5075.3	5004.1	4996.2	4901.2	4901.2	4856.0	4816.5	4760.0
10°	5195.1	5114.9	5104.7	5140.9	5052.7	5026.7	4911.4	4893.3	4833.4	4774.6	4713.6
12.5°	5256.2	5174.8	5166.9	5189.5	5090.0	5042.5	4911.4	4876.4	4788.2	4705.7	4658.2
15°	5313.8	5230.2	5208.7	5220.0	5105.8	5042.5	4895.6	4841.3	4728.3	4619.8	4564.4
17.5°	5354.5	5274.3	5252.8	5251.7	5113.8	5023.3	4861.7	4787.1	4651.4	4520.3	4464.9
20°	5395.2	5315.0	5287.8	5267.5	5111.5	4997.3	4811.9	4711.3	4553.1	4406.1	4359.8
22.5°	5415.6	5333.0	5303.7	5273.1	5096.8	4949.9	4750.9	4623.2	4442.3	4267.1	4228.7
25°	5419.0	5334.2	5302.5	5258.4	5067.4	4893.3	4671.8	4516.9	4314.6	4120.2	4087.4
27.5°	5409.9	5317.2	5285.6	5232.4	5023.3	4824.4	4578.0	4396.0	4178.9	3964.2	3929.1
30°	5378.3	5284.4	5253.9	5185.0	4961.2	4739.6	4475.1	4261.5	4028.6	3800.3	3769.8
32.5°	5315.0	5223.4	5198.5	5129.6	4893.3	4641.3	4355.3	4116.8	3862.4	3644.3	3599.1
35°	5222.3	5130.7	5114.9	5042.5	4798.4	4523.7	4224.2	3958.5	3686.1	3463.4	3419.3
37.5°	5101.3	5024.5	5000.7	4929.5	4686.5	4390.3	4073.8	3786.7	3506.4	3266.7	3239.6
40°	4948.7	4876.4	4858.3	4795.0	4556.5	4242.2	3911.1	3609.2	3321.0	3098.3	3059.9
42.5°	4774.6	4706.8	4696.7	4631.1	4396.0	4078.3	3734.7	3425.0	3127.7	2912.9	2874.5
45°	4576.8	4511.3	4509.0	4446.8	4220.8	3896.4	3549.3	3238.5	2938.9	2716.3	2695.9
47.5°	4358.7	4299.9	4299.9	4242.2	4025.2	3696.3	3358.3	3044.1	2749.0	2552.4	2516.2
50°	4121.3	4065.9	4049.0	4020.7	3809.3	3478.1	3157.1	2854.2	2561.4	2373.8	2338.7
52.5°	3868.1	3820.6	3831.9	3779.9	3575.3	3250.9	2953.6	2640.5	2372.6	2201.9	2166.9
55°	3601.3	3533.5	3543.7	3524.5	3331.2	3016.9	2725.3	2464.2	2187.2	2026.7	1994.0
57.5°	3324.4	3236.2	3272.4	3261.1	3071.2	2777.3	2516.2	2264.1	2003.0	1854.9	1823.3
60°	3040.7	2955.9	2993.2	2983.0	2804.4	2537.7	2300.3	2066.3	1819.9	1685.4	1653.7
62.5°	2749.0	2671.0	2705.0	2697.0	2533.1	2292.4	2085.5	1870.7	1635.6	1514.7	1485.3
65°	2455.1	2380.5	2411.1	2405.4	2253.9	2070.8	1865.1	1668.4	1450.3	1345.1	1315.7
67.5°	2154.5	2085.5	2113.8	2113.8	1974.7	1799.5	1643.5	1463.8	1268.3	1177.8	1150.7
70°	1856.1	1791.6	1816.5	1814.2	1696.7	1554.2	1419.7	1259.2	1084.0	1009.4	986.8
72.5°	1555.4	1498.9	1521.5	1519.2	1420.9	1329.3	1195.9	1056.9	904.3	844.4	824.0
75°	1263.7	1210.6	1232.1	1229.8	1149.6	1063.7	974.4	859.1	728.0	686.1	665.8
77.5°	985.7	931.4	949.5	949.5	890.7	828.6	757.3	668.0	575.4	530.1	515.4
80°	718.9	692.9	683.9	685.0	645.4	604.7	568.6	482.7	414.8	384.3	374.1
82.5°	472.5	451.0	442.0	444.2	421.6	396.8	374.1	314.2	269.0	250.9	245.3
85°	250.9	235.1	227.2	232.9	228.3	214.8	203.5	162.8	134.5	127.7	124.3
87.5°	79.1	69.0	63.3	83.6	71.2	63.3	61.0	48.6	37.3	37.3	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9
2.5°	4839.1	4839.1	4795.0	4784.8	4780.3	4786.0	4741.9	4734.0	4797.3	4775.8	4727.2
5°	4800.6	4798.4	4736.2	4724.9	4724.9	4718.1	4668.4	4657.1	4720.4	4702.3	4649.2
7.5°	4753.2	4746.4	4672.9	4665.0	4653.7	4649.2	4593.8	4585.9	4640.1	4628.8	4579.1
10°	4695.5	4688.7	4601.7	4596.0	4583.6	4574.6	4522.6	4516.9	4572.3	4554.2	4514.7
12.5°	4619.8	4607.4	4518.1	4512.4	4502.2	4498.8	4448.0	4445.7	4506.8	4488.7	4446.8
15°	4520.3	4510.1	4410.7	4412.9	4414.1	4414.1	4373.4	4371.1	4431.0	4423.1	4377.9
17.5°	4410.7	4397.1	4302.2	4308.9	4316.9	4325.9	4294.2	4299.9	4363.2	4353.0	4312.3
20°	4286.3	4272.8	4180.1	4199.3	4216.2	4234.3	4214.0	4229.8	4288.6	4284.1	4253.6
22.5°	4147.3	4133.7	4047.8	4077.2	4105.5	4139.4	4130.3	4148.4	4210.6	4209.5	4182.3
25°	3977.7	3981.1	3905.4	3941.6	3989.0	4036.5	4039.9	4069.3	4138.3	4131.5	4106.6
27.5°	3819.5	3824.0	3743.8	3804.8	3868.1	3929.1	3943.8	3984.5	4054.6	4049.0	4027.5
30°	3653.3	3659.0	3581.0	3664.6	3741.5	3816.1	3847.8	3903.1	3974.4	3974.4	3951.7
32.5°	3480.4	3490.6	3409.2	3521.1	3610.4	3697.4	3752.8	3810.4	3891.8	3889.6	3870.4
35°	3302.9	3314.2	3239.6	3382.0	3471.3	3577.6	3646.5	3723.4	3795.8	3796.9	3782.2
37.5°	3122.1	3135.6	3067.8	3223.8	3325.5	3451.0	3539.2	3616.0	3696.3	3700.8	3687.2
40°	2942.3	2957.0	2898.2	3048.6	3177.4	3317.6	3419.3	3509.8	3597.9	3600.2	3591.2
42.5°	2762.6	2778.4	2734.3	2881.3	3027.1	3177.4	3297.3	3400.1	3490.6	3496.2	3486.0
45°	2587.4	2601.0	2569.3	2729.8	2870.0	3033.9	3171.8	3288.2	3379.8	3387.7	3384.3
47.5°	2413.3	2425.8	2397.5	2544.4	2706.1	2880.2	3039.5	3168.4	3265.6	3274.7	3272.4
50°	2242.6	2252.8	2222.3	2376.0	2536.5	2721.9	2888.1	3037.3	3145.8	3154.8	3153.7
52.5°	2073.1	2083.3	2057.3	2218.9	2364.7	2560.3	2741.1	2902.8	3010.2	3023.7	3026.0
55°	1909.2	1913.7	1893.4	2048.2	2189.5	2394.1	2602.1	2759.2	2866.6	2877.9	2884.7
57.5°	1745.3	1746.4	1729.5	1877.5	2013.2	2222.3	2440.5	2605.5	2707.2	2718.5	2728.7
60°	1582.5	1581.4	1562.2	1705.7	1835.7	2042.6	2269.8	2433.7	2532.0	2542.2	2555.7
62.5°	1420.9	1417.5	1400.5	1532.8	1654.8	1859.4	2087.8	2246.0	2339.8	2346.6	2364.7
65°	1260.4	1257.0	1241.1	1363.2	1474.0	1669.5	1893.4	2043.7	2128.5	2137.5	2134.1
67.5°	1102.1	1095.3	1082.9	1192.5	1293.1	1474.0	1688.8	1832.3	1902.4	1910.3	1931.8
70°	943.9	935.9	907.7	1024.1	1112.3	1273.9	1474.0	1601.7	1660.5	1668.4	1665.0
72.5°	787.9	779.9	749.4	856.8	931.4	1072.7	1251.3	1357.6	1408.4	1415.2	1415.2
75°	636.4	631.9	612.7	694.0	756.2	871.5	1023.0	1111.1	1150.7	1158.6	1156.4
77.5°	490.6	487.2	468.0	538.1	586.7	672.6	794.6	863.6	893.0	902.0	921.2
80°	351.5	350.4	319.9	388.8	410.3	482.7	572.0	625.1	640.9	653.3	666.9
82.5°	224.9	226.1	195.6	254.3	263.4	309.7	365.1	397.9	409.2	419.4	429.5
85°	109.6	114.2	97.2	134.5	135.6	159.4	183.1	195.6	200.1	208.0	217.0
87.5°	28.3	32.8	18.1	38.4	33.9	44.1	50.9	54.3	53.1	58.8	62.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9
2.5°	4743.0	4779.2	4761.1	4819.9	4842.5	4806.3	4869.6	4870.7	4825.5	4878.6	4908.0
5°	4669.5	4706.8	4695.5	4756.6	4784.8	4753.2	4830.0	4844.7	4800.6	4860.6	4908.0
7.5°	4594.9	4639.0	4624.3	4686.5	4720.4	4695.5	4778.0	4801.8	4767.9	4833.4	4896.7
10°	4530.5	4567.8	4552.0	4617.5	4646.9	4626.6	4708.0	4752.0	4720.4	4800.6	4876.4
12.5°	4467.2	4497.7	4479.6	4533.9	4562.1	4536.1	4635.6	4676.3	4653.7	4737.3	4834.6
15°	4385.8	4419.7	4394.8	4443.5	4464.9	4442.3	4523.7	4593.8	4565.5	4657.1	4764.5
17.5°	4323.6	4342.8	4308.9	4347.4	4359.8	4329.3	4411.8	4480.8	4460.4	4559.9	4684.2
20°	4254.7	4270.5	4223.0	4244.5	4243.4	4204.9	4280.7	4348.5	4334.9	4444.6	4585.9
22.5°	4177.8	4185.7	4130.3	4134.9	4132.6	4069.3	4137.1	4206.1	4200.4	4311.2	4469.4
25°	4096.4	4097.6	4026.3	4024.1	3999.2	3924.6	3984.5	4062.5	4045.6	4165.4	4331.5
27.5°	4016.2	4004.9	3919.0	3898.6	3859.1	3769.8	3822.9	3893.0	3882.8	4000.3	4184.6
30°	3930.3	3915.6	3810.4	3773.1	3715.5	3612.6	3656.7	3722.3	3727.9	3830.8	4024.1
32.5°	3848.9	3811.6	3695.2	3640.9	3568.6	3448.7	3472.5	3539.2	3548.2	3652.2	3851.1
35°	3743.8	3718.9	3575.3	3482.6	3411.4	3280.3	3305.2	3351.5	3365.1	3466.8	3669.2
37.5°	3644.3	3604.7	3452.1	3339.1	3247.5	3109.6	3116.4	3163.9	3177.4	3280.3	3480.4
40°	3541.4	3484.9	3321.0	3188.7	3083.6	2938.9	2931.0	2980.8	2990.9	3091.5	3272.4
42.5°	3431.8	3364.0	3179.7	3035.0	2914.1	2767.1	2751.3	2794.3	2805.6	2903.9	3081.4
45°	3321.0	3239.6	3035.0	2876.8	2744.5	2594.2	2578.4	2611.1	2628.1	2720.8	2891.5
47.5°	3203.4	3108.5	2885.8	2709.5	2572.7	2422.4	2403.1	2435.9	2449.5	2541.1	2702.7
50°	3080.2	2964.9	2732.1	2537.7	2402.0	2253.9	2225.7	2264.1	2276.5	2362.5	2520.7
52.5°	2944.6	2816.9	2568.2	2364.7	2229.1	2087.8	2053.9	2091.2	2105.9	2189.5	2335.3
55°	2801.0	2663.1	2403.1	2205.3	2058.4	1920.5	1892.2	1906.9	1938.6	2017.7	2153.3
57.5°	2639.4	2502.6	2229.1	2027.9	1886.6	1754.3	1730.6	1744.1	1773.5	1850.4	1972.5
60°	2467.6	2322.9	2051.6	1850.4	1713.6	1588.2	1566.7	1579.1	1610.8	1680.8	1793.9
62.5°	2298.0	2135.3	1868.5	1668.4	1544.1	1427.6	1422.0	1417.5	1446.9	1514.7	1614.2
65°	2092.3	1936.3	1677.5	1487.6	1374.5	1269.4	1246.8	1257.0	1285.2	1347.4	1451.4
67.5°	1871.9	1730.6	1481.9	1306.7	1206.1	1112.3	1093.1	1097.6	1127.0	1181.2	1271.7
70°	1637.9	1513.6	1281.8	1124.7	1039.9	951.8	939.3	940.5	968.7	1016.2	1095.3
72.5°	1392.6	1280.7	1079.5	945.0	874.9	811.6	800.3	786.7	812.7	853.4	921.2
75°	1142.8	1044.5	878.3	768.6	713.3	660.1	650.0	636.4	662.4	697.4	750.6
77.5°	890.7	811.6	682.7	598.0	555.0	515.4	506.4	491.7	517.7	543.7	585.5
80°	644.3	586.7	509.8	420.5	405.8	379.8	370.8	354.9	379.8	396.8	428.4
82.5°	416.0	377.5	333.5	271.3	269.0	249.8	245.3	227.2	249.8	260.0	283.7
85°	210.2	192.2	180.9	137.9	142.4	130.0	128.9	109.6	127.7	132.3	145.8
87.5°	59.9	63.3	56.5	33.9	43.0	40.7	40.7	29.4	40.7	40.7	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P838117

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3HI-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9
2.5°	4850.4	4869.6	4874.1	4873.0	4885.4	4953.2	4930.6	4953.2
5°	4861.7	4904.6	4915.9	4931.8	4952.1	5029.0	5004.1	5031.2
7.5°	4868.5	4932.9	4957.8	4988.3	5021.1	5107.0	5086.6	5113.8
10°	4868.5	4952.1	4988.3	5039.2	5083.2	5182.7	5163.5	5195.1
12.5°	4848.1	4955.5	5006.4	5077.6	5134.1	5241.5	5233.6	5256.2
15°	4806.3	4938.5	5008.6	5100.2	5170.3	5290.1	5286.7	5313.8
17.5°	4749.8	4909.2	4993.9	5109.2	5197.4	5331.9	5339.8	5354.5
20°	4678.6	4853.8	4964.5	5105.8	5216.6	5364.7	5374.9	5395.2
22.5°	4584.7	4787.1	4920.5	5091.1	5218.9	5378.3	5396.3	5415.6
25°	4474.0	4706.8	4862.8	5062.9	5207.6	5377.1	5402.0	5419.0
27.5°	4347.4	4602.8	4789.3	5017.7	5175.9	5359.0	5389.6	5409.9
30°	4200.4	4492.1	4705.7	4958.9	5133.0	5325.1	5357.9	5378.3
32.5°	4049.0	4370.0	4606.2	4883.2	5070.8	5270.9	5299.1	5315.0
35°	3883.9	4221.9	4486.4	4786.0	4990.5	5183.8	5205.3	5222.3
37.5°	3704.2	4061.4	4349.6	4676.3	4877.5	5062.9	5082.1	5101.3
40°	3518.8	3893.0	4195.9	4541.8	4743.0	4914.8	4935.2	4948.7
42.5°	3332.3	3706.5	4032.0	4383.5	4583.6	4748.6	4761.1	4774.6
45°	3143.5	3513.2	3847.8	4208.3	4406.1	4561.0	4565.5	4576.8
47.5°	2951.4	3313.1	3645.4	4008.3	4203.8	4345.1	4349.6	4358.7
50°	2758.1	3113.0	3429.5	3792.4	3983.4	4132.6	4112.3	4121.3
52.5°	2568.2	2902.8	3226.1	3559.5	3748.3	3880.5	3886.2	3868.1
55°	2381.7	2697.0	2994.3	3315.4	3495.1	3597.9	3594.5	3601.3
57.5°	2192.9	2489.1	2761.5	3055.4	3230.6	3327.8	3348.1	3324.4
60°	2000.7	2278.8	2523.0	2788.6	2958.2	3039.5	3063.3	3040.7
62.5°	1809.7	2065.2	2286.7	2518.4	2675.6	2776.2	2773.9	2749.0
65°	1618.7	1850.4	2048.2	2244.9	2381.7	2482.3	2477.8	2455.1
67.5°	1442.3	1633.4	1810.8	1970.2	2088.9	2157.9	2181.6	2154.5
70°	1247.9	1413.0	1568.9	1696.7	1795.0	1857.2	1879.8	1856.1
72.5°	1053.5	1193.7	1303.3	1426.5	1502.3	1554.2	1578.0	1555.4
75°	861.3	976.6	1065.9	1162.0	1215.1	1259.2	1286.4	1263.7
77.5°	674.8	764.1	835.3	905.4	966.5	976.6	1000.4	985.7
80°	497.4	561.8	613.8	660.1	704.2	708.7	728.0	718.9
82.5°	331.2	374.1	387.7	436.3	464.6	460.1	479.3	472.5
85°	175.2	201.2	224.9	239.6	255.5	240.8	257.7	250.9
87.5°	58.8	62.2	54.3	76.9	84.8	72.3	82.5	79.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)